September 28, 1984 / Vol. 33 / No. 38

533 Mumps - United States, 1983-1984<br>535 Congo-Crimean Hemorrhagic Fever Republic of South Africa<br>541 Final 1983 Reports of Notifiable Diseases

During the first 37 weeks of 1984, a provisional total of 2,112 mumps cases was reported to CDC; this is a $13.5 \%$ decline from the 2,443 cases reported during the same period in 1983. To date, two states and the District of Columbia have reported no mumps cases.

In 1983, a total of 3,355 mumps cases was reported to CDC, for a reported incidence rate of 1.4 cases per 100,000 population (Table 1). This is $36 \%$ lower than the 1982 total of 5,270 cases and is the lowest reported incidence rate since mumps became a nationally notifiable disease in 1968 (Figure 1). It represents a 98\% decrease from 1968, the year after mumps vaccine licensure. In 1983, one state reported no mumps; in four other states, mumps is not a reportable disease.

Age-specific data are available for 2,074 ( $61.8 \%$ ) of the cases reported for 1983 (Table 1). As in 1981 and 1982, approximately three-fourths of mumps cases for which ages were known occurred among individuals under 15 years of age. During the past 3 years, the reported incidence decreased for all age groups. While the reported incidence among children under 5 years old increased by $6.5 \%$ from 1982 to 1983, the rates in the other age groups declined by $17 \%-57 \%$. In 1983, a $55 \%$ decline occurred among persons 10-19 years of age, the age group responsible for the overall increased occurrence of mumps observed from 1981 to 1982. During 1982, the highest age-specific incidence shifted for the first time from the 5- to 9 -year age group to the 10- to 14 -year age group. However, in 1983,5-to 9 -year-olds again had the highest incidence; children 10-14 years of age had the next highest risk of acquiring disease.
Reported by Div of Immunization, Center for Prevention Svcs, CDC.
Editorial Note: Mumps vaccine has consistently been shown to be safe, effective, and costbeneficial (1-4). The distribution of over 65 million doses of mumps-containing vaccine in FIGURE 1. Mumps incidence rates - United States, 1922-1983

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Mumps - Continued
the United States over the past 17 years has been associated with a $90 \%$ or greater decline in the reported occurrence of mumps in all age groups (Figure 2). As in the prevaccine era, persons under 15 years of age continue to have the highest incidence rate ( 5.0 cases/100,000 population); this rate is over 10 times that for persons 15 years of age or older (0.4/100,000). In a 1982-1983 nationwide survey, $95 \%$ of persons entering school were found to be immunized against mumps; however, the school-aged population continues to be the group at highest risk for disease. Unvaccinated cohorts exist in many areas $(5,6)$.

A school immunization law that includes mumps may be effective in controlling mumps infection, since this would ensure high immunization levels. Based on 1982 data, the reported mumps incidence rate for states that required proof of mumps immunity for school entry was

TABLE 1. Age distribution of reported mumps cases and estimated incidence rates* United States, 1981-1983 ${ }^{\dagger}$

| Age group (years) | No. | $\begin{gathered} 1981 \\ \% \end{gathered}$ | Rate | No. | $\begin{gathered} 1982 \\ \% \end{gathered}$ | Rate | No. | $\begin{aligned} & 1983 \\ & \% \end{aligned}$ | Rate | $\begin{aligned} & \text { Rate change }{ }^{\S} \\ & \text { 1981-1983 (\%) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| < 5 | 452 | 14.4 | 4.2 | 366 | 9.4 | 2.8 | 333 | 16.0 | 3.0 | -28.1 |
| 5-9 | 1,043 | 33.2 | 10.2 | 1,058 | 27.0 | 8.9 | 708 | 34.1 | 7.2 | -30.0 |
| 10-14 | 956 | 30.5 | 8.2 | 1,523 | 38.9 | 11.4 | 535 | 25.8 | 4.9 | -41.0 |
| 15-19 | 311 | 9.9 | 2.4 | 611 | 15.6 | 4.1 | 249 | 12.0 | 2.1 | -12.5 |
| $\geqslant 20$ | 377 | 12.0 | 0.4 | 355 | 9.1 | 0.3 | 249 | 12.0 | 0.2 | -34.4 |
| Age known (total) | 3,139 | 63.5 | - | 3,913 | 74.3 | - | 2,074 | 61.8 | - | - |
| Age unknown (total) | 1,802 | 36.5 | - | 1,357 | 25.7 | - | 1.281 | 38.2 | - | - |
| Total | 4,941 | 100.0 | 2.1 | 5,270 | 100.0 | 2.3 | 3,355 | 100.0 | 1.4 | -33.5 |

*Cases per 100,000 population projected census data for each year extrapolated from the age distribution of cases for which ages were known.
${ }^{\dagger}$ Not adjusted for states not reporting mumps: 1981 -New Mexico and Oklahoma; 1982 and 1983New Mexico, Oklahoma, Florida, Oregon.
$\S_{\text {Rate changes are derived from actual calculated rates, not rounded figures given in the table. }}$
FIGURE 2. Average annual mumps incidence rates, by age group - United States, 1967-1983


[^0]one-half that for the 19 states without such a law (2). Twenty states currently do not require proof of mumps immunity for school entry, and 15 states have laws that affect only first entry to school. Based on 1983 data, there was a $20 \%$ lower mumps incidence rate between states with laws and those with no law. In a recent mumps outbreak among schoolchildren in New Jersey, children covered by the state's school entry law had only one-fifth the risk for mumps as children not affected by the law (3). These observations indicate that further declines in the reported mumps incidence rate can be expected as more children entering school are required to provide proof of mumps immunity for school attendance.

## References

1. Immunization Practices Advisory Committee. Mumps vaccine. MMWR 1982;31:617-20, 625
2. CDC. Efficacy of mumps vaccine-Ohio. MMWR 1983;32:391-2, 397-8.
3. CDC. Mumps outbreak - New Jersey. MMWR 1984;33:421-2, 427-30.
4. Koplan JP, Preblud SR. A benefit-cost analysis of mumps vaccine. Am J Dis Child 1982;136:362-4.
5. CDC. Mumps surveillance report, January 1977-December 1982 (in press).
6. CDC. Mumps - United States, 1980-1983. MMWR 1983;32:545-7.

## Congo-Crimean Hemorrhagic Fever - Republic of South Africa

Seven cases of Congo-Crimean hemorrhagic fever (CCHF) have recently been reported from the Republic of South Africa (Figure 3). Four of these patients were exposed to a single ill cow; the fifth, to two additional ill cows from the same farm. The other two cases are unrelated. Brief case reports follow.

Cases 1-5: A 23-year-old farm laborer became ill May 1, 1984, with severe headache, fever, and dizziness. On May 4, he was in a confused state, and by May 9, he became comatose. A concussion was diagnosed, and surgery was performed for intracranial bleeding and hydrocephalus. The man did not regain consciousness and died May 27. Serum taken May 17 had an immunofluorescence assay (IFA) titer of 1:128 to CCHF, with a positive anti-immunoglobulin M ( $\lg \mathrm{M}$ ) conjugate.

The second and third patients, who worked on the same farm, became ill May 3 and May 5, respectively, with severe headaches, backaches, and fever. One had rash and melanic stools. Severe symptoms lasted only a few days, but full recovery was slow. IFA titers were positive in both cases.

The fourth patient owned the farm in Frankfort, Orange Free State province, on which the other three patients worked. He became ill May 8, with sudden onset of severe headache, FIGURE 3. Locations of Congo-Crimean hemorrhagic fever - Republic of South Africa, 1983-1984


## Hemorrhagic Fever - Continued

fever, and rigors. Within a few days, he developed mental confusion, hematemesis, epistaxis, and a petechial rash. He gradually recovered but continued to suffer from mild mental confusion when discharged May 26.

The fifth patient, a 70-year-old laborer, became ill several days after assisting a veterinarian in autopsies of two cows. He recovered but could remember neither the date of onset nor the duration of his illness. CCHF was confirmed on May 18 by IFA. No other farm residents developed antibodies.

The farm owner had purchased 46 cows on January 17, and January 31, 1984, from the southern Cape province, an area presumed free of CCHF. Two became ill and died March 13. Autopsies were performed by the veterinarian who the fifth patient had assisted; he diagnosed anaplasmosis, a tick-borne disease. A third cow became ill and died April 29. The veterinarian diagnosed foreign-body reticulitis/pericarditis, but no autopsy was performed. All three of the laborers who subsequently became ill had handled the third cow the day of its death and recalled soiling their hands with blood-tinged discharge from the cow's nose. The farmer had not handled the dead cow but had given it intravenous treatments several days earlier. Shortly before his illness, he had found a tick on his sock; the tick had not bitten him, but he had crushed it between his fingers.

Twenty of the 46 new cows were bled on May 18. Seventeen had IFA antibodies against (Continued on page 541)


TABLE II. Notifiable diseases of low frequency, United States

|  | Cum 1984 |  | Cum 1984 |
| :---: | :---: | :---: | :---: |
| Anthrax | 1 | Plague | 22 |
| Botulism: Foodborne (Calif. 2) | 10 | Poliomyelitis: Total | 2 |
| Infant (Colo. 1) | 67 | Paralytic | 2 |
| Other | 6 | Psittacosis | 62 |
| Brucellosis (N.J. 1, Ark. 1, Tex. 1, Calif. 2) | 84 | Rabies, human | 1 |
| Cholera | - | Tetanus (Tex. 3) | 47 |
| Congenital rubella syndrome | 3 | Trichinosis (N.Y. City 1) | 61 |
| Diphtheria | 1 23 | Typhus fever, flea-borne (endemic, murine) | 21 |

-The 1983 reports which appear in this table were collected before AIDS became a notifiable condition.
"One of the 9 reported cases for this week was imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending
September 22, 1984 and September 24, 1983 (38th Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis íViral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ | 1984 | 1984 | 1984 | 1984 | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ |
| UNITED STATES | 2.975 | 305 | 737 | 72 | 602,806 | 654,716 | 426 | 548 | 54 | 126 | 17 | 166 |
| NEW ENGLAND | 98 | 13 | 34 | 1 | 17.165 | 16,405 | 17 | 41 | 2 | 17 | 4 | 8 |
| Maine | - | . | - | - | 713 | 809 | - | 1 | - | - | 2 | - |
| N.H. | 1 | - | 6 | - | 505 | 534 | - | 1 | - | - | - | - |
| Vt . | 5 | - | 4 | - | 282 | 319 | 1 | - | - | - | 1 | - |
| Mass. | 54 | 4 | 15 | - | 7.090 | 7.095 | 10 | 15 | - | 15 | - | 6 |
| R.I. | 6 | 8 | - | - | 1,220 | 935 | 1 | 5 | - | - | 1 | 2 |
| Conn. | 37 | 1 | 9 | 1 | 7.355 | 6.713 | 5 | 19 | 2 | 2 | - | . |
| MID ATLANTIC | 1.303 | 60 | 94 | 10 | 81.254 | 83.054 | 52 | 117 | 4 | 8 | 2 | 32 |
| Upstate N.Y. | 123 | 30 | 32 | 7 | 12.722 | 13,269 | 7 | 11 | 1 | 2 | - | 2 |
| N.Y. City | 939 | 2 | 8 | - | 32,723 | 33,163 | 22 | 67 | - | 5 | 2 | 30 |
| N.J. | 173 | 10 | 25 | - | 13,947 | 15,599 | 15 | 23 | 2 | 1 | - | - |
| Pa . | 68 | 18 | 29 | 3 | 21.862 | 21,023 | 8 | 16 | 1 | - | - | - |
| EN CENTRAL | 137 | 63 | 195 | 17 | 84,332 | 94,761 | 24 | 50 | 3 | 6 | 3 | 6 |
| Ohio | 16 | 34 | 59 | 9 | 22.443 | 24.277 | 4 | 14 | 1 | 3 | 3 | 2 |
| Ind. | 22 | 11 | 45 | - | 8.892 | 10.054 | 3 | 11 | - | 2 | - | - |
| III. | 69 | , | 22 | 6 | 19.047 | 27.066 | 6 | 2 | 1 | 1 | - | 2 |
| Mich. | 20 | 18 | 43 | - | 24.575 | 25.136 | 11 | 23 | 1 | - | - | 2 |
| Wis. | 10 |  | 26 | 2 | 9,375 | 8.228 | - |  | - | - | - | - |
| W N CENTRAL | 31 | 11 | 58 | 3 | 29.478 | 31.043 | 10 | 15 | 1 | 1 | 1 | 1 |
| Minn. | 7 | 3 | 22 |  | 4,491 | 4.302 | 2 | 4 | - | - | - | - |
| lowa | 2 | 1 | 24 | - | 3,225 | 3.354 | 1 | 1 | - | - | - | 1 |
| Mo | 17 | 2 | 7 | - | 14.193 | 15.289 | 2 | 3 | - | 1 | 1 | - |
| N Dak | - | - | - | - | 287 | 316 | - | - | - | - | - | - |
| S Dak. | - | - | 1 | 1 | 687 | 804 | 1 | 1 | - | - | - | - |
| Nebr | 2 | - | 1 | - | 1.999 | 1.945 | 3 | 1 | - | - | - | - |
| Kans | 3 | 5 | 3 | 2 | 4.596 | 5.033 | 1 | 5 | 1 | - | - | - |
| S ATLANTIC | 412 | 38 | 113 | 15 | 153,306 | 169.296 | 9 | 108 | 10 | 11 | 5 | 6 |
| Del | 4 | - | 1 |  | 2.851 | 3.069 | 2 |  |  | - | 2 | - |
| Md | 29 | 6 | 24 | - | 17.830 | 21.657 | - | 9 | - | 4 | - | - |
| DC | 67 |  |  | - | 10.971 | 11.435 | - | 18 | - | - | - | 1 |
| Va | 26 | 11 | 25 | 5 | 14,646 | 15,292 | 1 | 2 | 3 | 2 | 2 | 4 |
| W Va | 4 | 4 | 17 | - | 1.906 | 1,862 | - | - | - | - | - | - |
| NC | 9 | 5 | 21 | 7 | 25,149 | 26,265 | 1 | 12 | 4 | 2 | - | - |
| S. C | 7 | 1 | 4 |  | 15,451 | 15.913 | - | 8 | - | - | 1 | - |
| Ga | 43 | 6 | 2 | 1 | 27,934 | 33,388 | 2 | 27 | - | 1 | - | - |
| Fia | 223 | 5 | 19 | 2 | 36,568 | 40.415 | 3 | 32 | 3 | 2 | - | 1 |
| ES CENTRAL | 21 | 19 | 40 | 6 | 53,372 | 54,983 | 9 | 32 | 3 | 2 | - | - |
| Ky | 9 | 12 | 8 |  | 6,463 | 6.460 | 3 | 5 | - | - | - | - |
| Tenn | 5 | 7 | 13 | 1 | 21.982 | 22.753 | 4 | 16 | 2 | 2 | - | - |
| Ala. | 5 | - | 17 | 5 | 16,823 | 16.782 | 1 | 9 | 1 | - | - | - |
| Miss | 2 | - | 2 | - | 8,104 | 8.988 | 1 | 2 | - | - | - | - |
| WS CENTRAL | 207 | 29 | 59 | 4 | 82.473 | 92.366 | 74 | 27 | 7 | 44 | 1 | 17 |
| Ark. | 1 | - | - | 2 | 7,197 | 7,362 | - | 1 | 1 | - | - | 1 |
| La. | 31 | 1 | 6 | - | 18,387 | 17.516 | 4 | 3 |  | 1 | 1 | 1 |
| Okla | 7 | 5 | 19 | 1 | 8,961 | 10.703 | 12 | 3 | 2 | - | 1 | - |
| Tex. | 168 | 23 | 34 | 1 | 47,928 | 56,785 | 58 | 23 | 4 | 43 | - | 15 |
| MOUNTAIN | 48 | 22 | 23 | 8 | 19.718 | 20.777 | 57 | 25 | 9 | 4 | 1 | 8 |
| Mont. | - | 2 | - | - | 811 | 863 | 2 | 1 | 1 | - | - | - |
| daho | - | 1 | - | - | 942 | 872 | 2 | 2 | 1 | - | - | - |
| Wyo | 1 | - | 7 | - | 544 | 542 | 1 | - | - | 2 | 1 | - |
| Colo. | 25 | 6 | 7 | - | 5,615 | 5.814 | 7 | 6 | - | 2 | - | - |
| N. Mex. | - | 4 | - | - | 2,345 | 2,576 | 16 | 1 | 3 | - | - | - |
| Ariz. | 11 | 5 | 9 | 3 | 5,334 | 5.960 | 15 | 10 | 2 | 2 | - | 6 |
| Utah | 6 | 3 | 7 | 5 | 961 | 987 | - | 5 | 3 | - | - | 1 |
| Nev. | 5 | 1 | - | - | 3.166 | 3.163 | 14 | 5 | 3 | - | - | 1 |
| PACIFIC | 718 | 50 | 121 | 8 | 81.708 | 92,031 | 174 | 133 | 15 | 33 | - | 88 |
| Wash. | 38 | 5 | 7 | - | 5,953 | 7,152 | 5 | 2 | - | - | - | 3 |
| Oreg. | 7 | - | 111 | 8 | 4,795 | 4.921 75.759 | 11 158 | 127 | 15 | 33 | - | 1 |
| Calif. | 660 | 44 | 111 | 8 | 67.497 | 75.759 | 158 | 127 | 15 | 33 | - | 69 |
| Alaska | 1 | - | - | - | 2,040 | 2,397 | - | 1 | - | - | - | - |
| Hawaii | 12 | 1 | 3 | - | 1.423 | 1,802 | - | - | - | - | - | 15 |
| Guam | - | U | - | - | 95 | 114 | U | U | U | U | U | - |
| P.R. | 33 | 7 | 3 | 1 | 2.436 | 2,146 | 6 | 5 | - | 4 | - | 2 |
| V.I. |  | - | - | - | 356 | 199 | - | - | - | - | - | - |
| Pac. Trust Terr. | - | U | - | - |  | - | U | U | U | U | U | - |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
September 22, 1984 and September 24, 1983 (38th Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported * |  | $\begin{array}{l\|} \hline \text { Total } \\ \hline \text { Cum. } \\ 1983 \end{array}$ |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ |  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ | 1984 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ |
| UNITED STATES | 684 | 7 | 2,050 | 3 | 258 | 1.237 | 2,059 | 25 | 2,237 | 118 | 1,636 | 1.739 | 56 | 613 | 786 |
| NEW ENGLAND Maine | 40 | - | 93 | - | 11 | 16 | 139 | - | 69 | 1 | 42 | 56 | 1 | 19 | 15 |
| $\begin{aligned} & \text { Main } \\ & \text { N.H. } \end{aligned}$ | - | - | 33 | - | 3 |  | 1 | - | 22 | - | 2 | 4 7 | - | 1 | 15 |
| Vt . | 4 | - | 33 2 | - | 3 5 | 3 | 7 26 | - | 15 5 | - | 6 19 | 7 | - | 1 | 4 |
| Mass. | 23 | - | 48 | - | 5 | 5 | 60 | - | 10 | - | 19 11 | 8 31 | 1 | 17 | 5 |
| R.I. | 4 | - |  | - |  | 5 | 12 | - | 8 | - | 1 2 | 31 5 | 1 | 17 | 6 |
| Conn. | 9 | - | 10 | - | 3 | 8 | 33 | - | 9 | 1 | 2 | 5 1 | - | - | - |
| MID ATLANTIC | 109 | 5 | 116 | 2 | 34 | 96 | 344 | 6 | 265 | 6 | 145 | 316 | 1 | 217 | 134 |
| Upstate N.Y. | 23 | 2 | 23 | 1 § | 12 | 10 | 116 | 3 | 71 | 5 | 80 | 98 | 1 | 99 | 25 |
| N.Y. City | 29 | 3 | 89 | $1+$ | 15 | 56 | 75 | 3 | 23 | 1 | 7 | 50 | 1 | 98 | 86 |
| N.J. | 34 | - | 4 | - | 2 | 27 | 69 |  | 130 | 1 | 11 | 19 |  | 16 | 3 |
| Pa. | 23 | - | - | - | 5 | 3 | 84 | - | 41 | - | 47 | 149 | . | 4 | 20 |
| E.N. CENTRAL | 64 | - | 611 | 1 | 71 | 647 | 326 | 2 | 891 | 4 | 387 | 409 | 1 | 82 | 116 |
| Ohio | 15 | - | 3 | - | 6 | 85 | 110 | - | 436 |  | 64 | 120 | 1 | 2 | 116 2 |
| Ind. | 2 | - | 177 | § | 1 | 400 | 39 | - | 53 | - | 225 | 48 | - | 5 | 23 |
| III. ${ }_{\text {Mich. }}$ | 23 | - | 177 | 1 § | 2 | 154 | 72 | 1 | 168 | - | 22 | 141 | 1 | 48 | 48 |
| Mich. Wis. | 13 | - | 408 | - | 54 | 7 | 63 | 1 | 161 | 1 | 26 | 32 | . | 19 | 15 |
| Wis. | 11 | - | 21 | - | 8 | 1 | 42 | - | 73 | 3 | 50 | 68 | - | 8 | 28 |
| W.N. CENTRAL | 19 | - | 38 | - | 8 | 7 | 124 | 2 | 92 | 1 | 111 | 109 | - | 34 |  |
| Minn. | 6 | - | 35 | - | 3 | 1 | 25 | 2 | 4 | 1 | 12 | 38 | - | 34 4 | 38 8 |
| lowa Mo. | 2 | - | - | - | - | - | 21 | 1 | 22 | - | 10 | 6 | - | 1 | 8 |
| Mo. | 6 | - | 3 | - | - | 1 | 37 | - | 9 | - | 18 | 21 | - | . | - |
| N. Dak. S Dak. | 1 | - | - | - | - | - | 1 | - | 2 | - | - | 2 | - | 3 | - |
| Sebr. | 1 | - | - | - | - | - | 6 | - |  | - | 8 | 7 | - | - | . |
| Nans. | 1 | - | - | - | 5 | 5 | 11 | - | 4 | - | 11 | - | - | - | - |
|  |  | - | - | - | 5 | 5 | 23 | 1 | 51 | 1 | 52 | 35 | - | 26 | 30 |
| S. ATLANTIC | 101 | 1 | 17 | - | 28 | 201 | 430 | - | 165 | 8 | 120 | 220 | - | 21 | 92 |
| Del. | 4 | - | - | - | - | - | 3 | - | 2 | 8 | 2 | 3 | - | 21 | 92 |
| Md. | 25 | - | 6 | - | 14 | 10 | 34 | - | 33 | 3 | 11 | 29 | - | 1 | 3 |
| V.C. | 1 27 | - | 1 | - | 5 | 23 | 8 48 | - | 16 | - |  |  | - | - | 3 |
| W. Va. | 1 | - | 1 | - | 2 | 23 | 48 | - | 16 35 | 1 | 14 | 46 | - | - | 2 |
| N.C. | 8 | - | - | - | - | 1 | 67 | - | 17 | 1 | 24 | 26 | - | - | 10 |
| S.C. | 2 | - | - | - | - | 4 | 44 | - | 4 | 1 | 2 | 13 | - | - | 10 |
| Ga. | 9 | - | $1{ }^{-}$ | - | 1 | 8 | 84 | - | 17 | - | 10 | 63 | - | 2 | 11 |
| Fla. | 24 | 1 | 10 | - | 6 | 155 | 136 | - | 41 | 3 | 47 | 33 | - | 18 | 65 |
| E.S. CENTRAL | 8 | - | 1 | - | 2 | 6 | 119 | - | 45 | - | 12 | 25 | - | 9 |  |
| Ky. | 1 | - | 1 | - | - | 1 | 48 | - | 9 | - | 1 | 11 | - | 3 | 13 |
| Tenn. | 2 | - | - | - | 2 | - | 30 | - | 15 | - | 7 | 5 | - | 3 | 13 |
| Ala. | 5 | - | - | - | - | 5 | 28 | - | 6 | - | - | 5 | - | 3 | 1 |
| Miss. | - | - | - | - | - | - | 13 | - | 15 | - | 4 | 4 | - | 3 | 1 |
| W.S. CENTRAL | 63 | - | 508 | - | 25 | 74 | 217 | 5 | 122 | 11 | 281 | 325 | 48 | 61 |  |
| Ark. | 9 | - | 8 | - | - | 13 | 31 | . | 7 | 1 | 15 | +19 | 4 | 3 | 101 |
| La. | 9 | - | 8 | - | - | 25 | 44 | - | - | - | 6 | 6 | - | 3 | 9 |
| Okla. | 8 | - | - | - | 8 | 1 | 23 | N | N | 2 | 234 | 237 | - | - | - |
| Tex. | 46 | - | 492 | - | 17 | 35 | 119 | 5 | 115 | 9 | 26 | 63 | 48 | 58 | 92 |
| MOUNTAIN | 23 | - | 111 | - | 32 | 4 | 71 | 3 | 209 | 5 | 102 | 175 | 2 | 18 |  |
| Mont. | 1 | - | - | - | - | - | 2 | - | 7 | 5 | 19 | 1 | 2 | - | 3 |
| Idaho | 2 | - | - | - | 23 | 1 | 8 | - | 9 | - | 7 | 15 | - | 1 | 8 |
| Wyo. | - | - | - | - | - | 1 | 2 | - | 2 | 3 | - 6 | 6 | - | 2 | 4 |
| Colo. | 4 | , - | $\stackrel{-}{-}$ | - | 6 | 2 | 25 | 1 | 17 | , | 34 | 106 | - | 2 | 1 |
| N. Mex. | 1 | - | 88 | - | - | - | 7 | N | $N$ | 1 | 7 | 11 | - | 2 | 1 |
| Ariz. | 9 | - | - | - | 1 | 1 | 15 | 1 | 166 | 1 | 20 | 18 | 2 | 3 | 6 |
| Utah | 6 | - | 23 | - | 2 | - | 7 | , | 5 | 1 | 7 | 18 | 2 | 6 | 7 |
| Nev . | - | - | - | - | - | - | 5 | 1 | 3 | - | 2 | 1 | - | 4 | 1 |
| PACIFIC | 257 | 1 | 555 | - | 47 | 186 | 289 | 7 | 379 | 82 | 436 | 104 | 3 | 152 |  |
| Wash. | 8 | - | 125 | - | 13 | 5 | 44 | 1 | 39 | 81 | 239 | 16 | 3 | 152 | 246 9 |
| Oreg. | 10 | 1 | 777 | - | - | 9 | 41 | N | N | 8 | +14 | 6 | - | 2 | 9 13 |
| Calif. | 235 | 1 | 277 | - | 30 | 169 | 196 | 5 | 313 | - | 111 | 75 | 3 | 144 | 222 |
| Alaska | 4 | - | 153 | - | - | - 2 | 7 | - | 8 | - | , | 4 | 3 | 1 | 1 1 |
| Hawaii | 4 | - | 153 | - | 4 | 1 | 1 | 1 | 19 | 1 | 72 | 3 | - | 4 | 1 |
| Guam | 1 | U | 83 | U | 2 | 2 | 1 | U | 5 | U | - | - | U | 2 |  |
| P.R. | 4 | - | 1 | - | - | 94 | 3 | 8 | 136 | U | - | 11 | U | 8 | 4 |
| V.I. | - | , | - | U | - | 5 | - | - | 5 | - | - | . | - | 8 | 2 |
| Pac. Trust Terr. | - | U | - | U | - |  | - | U | - | U | - | - | u | - | 2 |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
September 22, 1984 and September 24, 1983 (38th Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxic- <br> shock <br> Syndrome <br> 1984 | Tuberculosis |  | $\begin{gathered} \begin{array}{c} \text { Tula- } \\ \text { remia } \end{array} \\ \hline \text { Cum. } \\ 1984 \end{gathered}$ | Typhoid <br> Fever <br> Cum. <br> 1984 | Typhus Fever <br> (Tick-borne) <br> (RMSF) <br> Cum. <br> 1984 | Rabies, <br> Animal <br> Cum, <br> 1984 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1983 \end{aligned}$ |  | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1983 \end{aligned}$ |  |  |  |  |
| UNITED STATES | 20,226 | 23.647 | 5 | 15.542 | 17.007 | 240 | 233 | $721+3$ | 3.865 |
| NEW ENGLAND | 377 | 491 | - | 462 | 488 | 4 | 14 | 5 | 41 |
| Maine | 3 | 15 | - | 21 | 26 | - | - | - | 12 |
| N.H. | 12 | 19 | - | 25 | 31 | - | - | - | 15 |
| Vt . | 1 | 1 | - | 9 | 6 | - | - | - |  |
| Mass. | 216 | 308 | - | 252 | 262 | 4 | 12 | 4 | 9 |
| R.I. | 15 | 16 | - | 36 | 39 | - | - | - | - |
| Conn. | 130 | 132 | - | 119 | 124 | - | 2 | 1 | 5 |
| MID ATLANTIC | 2.735 | 3.047 | - | 2,837 | 2,977 | - | 38 | 21 ! | 328 |
| Upstate N Y . | 223 | 276 | - | 2,864 | 471 | - | 12 | 7 | 69 |
| N.Y. City | 1.700 | 1.791 | - | 1,129 | 1,181 | - | 11 | 2 |  |
| NJ. | 478 | 580 | - | 633 | 651 | - | 9 | 3 | 26 |
| Pa . | 334 | 400 | - | 611 | 674 | - | 6 | 9 | 233 |
| E. N CENTRAL | 956 | 1.284 | 1 | 2.040 | 2.275 | 6 | 35 | 52 | 175 |
| Ohio | 185 | 336 | 1 | 373 | 363 | - | 6 | 35 | 21 |
| Ind. | 97 | 91 | - | 243 | 254 | - | 3 | 5 | 19 |
| III. | 322 | 627 | - | 839 | 985 | 6 | 13 | 9 | 62 |
| Mich. | 293 | 166 | - | 454 | 555 | - | 5 | 3 | 20 |
| Wis. | 59 | 64 | - | 131 | 118 | - | 8 | - | 53 |
| W.N CENTRAL | 285 | 289 | 3 | 485 | 563 | 75 | 6 | 45 + | 593 |
| Minn. | 77 | 111 | 2 | 79 | 103 | 1 | 2 | - | 59 |
| lowa | 11 | 19 | 2 | 50 | 53 | - | - | 6 | 123 |
| Mo | 145 | 109 | - | 248 | 294 | 38 | 3 | 12 | 52 |
| N Dak. | 10 | 2 | 1 | 10 | 6 | - | - | $\bigcirc$ | 122 |
| S Dak. | - | 11 | , | 18 | 33 | 33 | - | 51 | 151 |
| Nebr. | 11 | 11 | - | 25 | 20 | - | - | 4 | 38 |
| Kans. | 31 | 26 | - | 55 | 54 | 3 | 1 | 18 | 48 |
| S ATLANTIC | 5,934 | 6.282 | - | 3.271 | 3.429 | 5 | 31 | 338 | 1.101 |
| Del | 14 | 28 | - | 45 | 46 | - | - | 1 | 4 |
| Md | 379 | 387 | - | 328 | 268 | - | 2 | 28 | - 594 |
| D C | 242 | 280 | - | 139 | 141 | - | 6 | - | - |
| Va . | 305 | 429 | - | 351 | 352 | - | 8 | 50 | 171 |
| W Va | 13 | 21 | - | 96 | 106 | - | - | 6 | 35 |
| NC. | 610 | 598 | - | 474 | 508 | 1 | 1 | 137 . | 24 |
| S. | 564 | 399 | - | 385 | 311 | - | 1 | $72!$ | 44 |
| Ga | 1.027 | 1,138 | - | 482 | 624 | 4 | 1 | 411 | 146 |
| Fla | 2,780 | 3,002 | - | 971 | 1.073 | - | 12 | 3 | 83 |
| E S CENTRAL | 1.439 | 1,654 | - | 1,436 | 1,533 | 4 | 5 | 75 | 191 |
| $K y$ | 78 | 120 | - | . 344 | 366 | - | 2 | 15. | 46 , |
| Tenn. | 375 | 459 | - | 437 | 472 | 4 | 2 | 40. | 68 |
| Ala. | 462 | 656 | - | 423 | 397 | - | 1 | 12 | - 77 |
| Miss. | 524 | 419 | - | 232 | 298 | - | - | 8 |  |
| W. S CENTRAL | 4,975 | 6,171 | 1 | 1.767 | 2.081 | 107 | 14 | 769 | 788 |
| Ark. | 143 | 148 | - | 187 | 238 | 79 | 1 | 29 | 90 |
| La | 895 | 1,265 | - | 242 | 325 | 7 | 1 | 2 | 47 |
| Okla | 161 | 157 | 1 | 157 | 187 | 16 | 3 | 111 | 88 |
| Tex. | 3,776 | 4.601 | - | 1.181 | 1,331 | 5 | 10 | 27 | 563 |
| MOUNTAIN | 448 | 484 | - | 423 | 471 | 30 | 12 | 12 | 228 |
| Mont. | 3 | 7 | - | 17 | 41 | 3 | 1 | 8 | - 100 |
| Idaho | 20 | 6 | - | 24 | 24 | 7 |  | 1 | - 9 |
| Wyo. | 4 | 10 | - | $5{ }^{\circ}$ | 11 | 1 | 3 | 3 | 16 |
| Colo. | 120 | 115 | - | 50 | 63 | 6 | 3 | - | 37 |
| N. Mex. | 62 | 129 | - | 85 | 87 | 2 | 3 | - | 11 |
| Ariz. | 158 | 120 | - | 195 | 182 | 3 | 4 | - | 39 |
| Utah | 14 | 19 | - | 30 | 34 | 4 | - | - | 2 |
| Nev . | 67 | 78 | - | 22 | 29 | 4 | 1 | - | 14 |
| PACIFIC | 3.077 | 3,945 | - | 2,821 | 3,190 | 9 | 78 | 4 | 420 |
| Wash. | 106 | 143 | - | +145 | 184 | 2 | 2 | , | 3 |
| Oreg. | $\begin{array}{r}81 \\ \hline 830\end{array}$ | 106 | - | 110 | 134 | 2 | 1 | 1 | 1 |
| Calif. | 2.830 | 3.629 | - | 2,364 | 2,652 | 5 | 70 | 2 | 408 |
| Alaska | 4 56 | 10 | - | 2, 43 | $\begin{array}{r}2.652 \\ \hline 178\end{array}$ | 5 | 1 | 1 | 8 |
| Hawaii | 56 | 57 | - | 159 | 178 | - | 4 | - | - |
| Guam | 575 | $750^{\circ}$ | U | 5 | 5 | - | - | - | $4{ }^{-}$ |
| P.R. | 575 8 | 750 17 | U | 273 | 363 | - | 3 | - | 46 |
| V.I. | 8 | 17 | i | 2 | 2 | - | 3 | - | - |
| Pac. Trust Terr. | - |  | U | - | - | - | - | - | - |

TABLEIV. Deaths in 121 U.S. cities, * week ending
September 22, 1984 (38th Week Ending)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\&10 } \\ & \text { Total } \end{aligned}$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\&1* <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |  | $\begin{aligned} & \text { All } \\ & \text { Ages } \end{aligned}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 652 | 437 | 146 | 37 | 15 | 17 | 34 | $\begin{array}{llllllllll}\text { S. ATLANTIC } & 1.193 & 734 & 271 & 93 & 45 & 50 & 45\end{array}$ |  |  |  |  |  |  |  |
| Boston, Mass. | 155 | 83 | 43 | 16 | 6 | 7 | 10 | Atlanta, Ga. | 148 | 86 | 36 | 9 | 8 | 9 | 4 |
| Bridgeport, Conn. | 42 | 34 | 4 | 3 | - | 1 | 1 | Baltimore, Md. | 290 | 173 | 72 | 21 | 15 | 9 | 4 |
| Cambridge, Mass. | 23 | 18 | 4 | - | 1 | - | 2 | Chariotte, N.C. | 64 | 37 | 12 | 7 | 5 | 3 | 3 |
| Fall River, Mass | 27 | 18 | 8 | 1 | - | - | 2 | Jacksonville, Fla. | 73 | 48 | 15 | 8 | 2 | 3 | 8 |
| Hartford, Conn. | 44 | 29 | 13 | 1 | - | 1 | 3 | Miami, Fla. | 102 | 67 | 20 | 10 | 3 | 2 | 1 |
| Lowell, Mass. | 33 | 23 | 6 | 2 | 2 | - | 1 | Norfolk, Va. | 51 | 32 | 11 | 3 | 3 | 5 | 3 |
| Lynn, Mass. | 25 | 13 | 6 | 2 | 4 | - |  | Richmond, Va. | 69 | 41 | 18 | 6 | 1 | 3 | 3 |
| New Bedford, Mass. | s. 32 | 24 | 6 | 1 | - | 1 | 1 | Savannah, Ga. | 44 | 24 | 12 | 7 | 1 | - | 2 |
| New Haven, Conn. | 43 | 27 | 9 | 3 | 2 | 2 | - | St. Petersburg, Fla. | 93 | 77 | 11 | 1 | 1 | 3 | 7 |
| Providence, R.I. | 75 | 62 | 13 | - | - |  | 7 | Tampa, Fla. | 60 | 44 | 11 | 3 | 1 | 1 | 4 |
| Somerville, Mass | 4 | 3 | 1 | - | - | - | - | Washington, D.C. | 153 | 80 | 40 | 14 | 6 | 13 | 5 |
| Springfield, Mass | 61 | 43 | 13 | 2 | - | 3 | 2 | Wilmington, Del. | 46 | 25 | 13 | 4 | 2 | 2 | 4 |
| Waterbury, Conn. | 34 | 26 | 7 | 1 | - | 3 | 2 | , | 4 | 25 | 13 | 4 | 2 | 2 | 4 |
| Worcester, Mass. | 54 | 34 | 13 | 5 | - | 2 | 3 | E.S. CENTRAL | 794 | 485 | 196 | 50 | 26 | 37 | 31 |
|  |  |  |  |  |  |  |  | Birmingham, Ala. | 98 | 62 | 27 | 5 | 3 | 1 | 3 |
| MID. ATLANTIC 2 | 2.395 | 1.570 27 | 493 | 198 | 65 | 69 | 104 | Chattanooga, Tenn. | 53 | 34 | 12 | 5 3 | 2 | 2 | 3 5 |
| Albany. N.Y. <br> Allentown, Pa | 45 | 27 | 13 | 1 | 4 | - | - | Knoxville, Tenn. | 81 | 47 | 19 | 5 | 6 | 4 | 5 |
|  | 10 | 9 | 1 | - | - | - | - | Louisville, Ky. | 90 | 55 | 24 | 2 | 4 | 5 | 3 |
| Buffalo, N.Y. | 90 | 62 | 26 | 2 | 5 | - | 12 | Memphis. Tenn. | 220 | 136 | 52 | 18 | 3 | 11 | 9 |
| Camden, N.J. | 49 | 26 | 11 | 3 | 5 | 4 | - | Mobile, Ala. | 77 | 44 | 21 | 3 | 2 | 7 | 2 |
| Elizabeth, N.J. | 25 45 | 17 35 | 5 | 3 | - | 1 | 1 | Montgomery, Ala. Nashville. Tenn | 69 | 46 | 14 | 4 | 2 | 3 | 1 |
| Erie, Pa.t | 45 39 | 35 28 | 7 | 2 |  | 1 | 2 | Nashville, Tenn. | 106 | 61 | 27 | 10 | 4 | 4 | 3 |
| Jersey City, N.J. | 1.377 | 872 | 299 | 130 | 39 | 37 | 56 | W.S. CENTRAL | 1.40 | 777 |  |  |  |  |  |
| Newark, N.J. | 39 | 18 | 6 | 8 | 1 | 6 | 9 | Austin, Tex. | +61 | 39 | $\begin{array}{r}13 \\ \hline\end{array}$ | 135 5 | 3 | 1 | 7 |
| Paterson, N.J. | 28 | 17 | 4 | 2 | - | 5 | 2 | Baton Rouge, La | 51 | 31 | 13 | 5 1 | 1 1 | 5 | 7 |
| Philadelphia, Pa.t | 219 | 146 | 41 | 21 | 5 | 6 | 7 | Corpus Christi, Tex. | 31 | 22 | 4 | 3 | . | 2 |  |
| Pittsburgh, Pa.t | 65 | 38 | 16 | 5 | 3 | 3 | - | Dallas, Tex. | 193 | 109 | 54 | 18 | 7 | 5 | 3 |
| Reading. Pa . | 38 | 34 | 1 | 1 | 2 | - | 3 | El Paso, Tex. | 48 | 25 | 12 | 3 | 5 | 3 | 1 |
| Rochester, N.Y. | 135 | 106 | 18 | 5 | 3 | 3 | 6 | Fort Worth, Tex. | 101 | 69 | 21 | 4 | 4 | 3 | 6 |
| Schenectady, N.Y. | 20 | 11 | 7 | 2 | - | - | 1 | Houston, Tex. | 419 | 207 | 120 | 46 | 29 | 17 | 8 |
| Scranton, Pa.t | 25 | 19 | 4 | 2 | - | - | 2 | Little Rock, Ark. | 53 | 34 | 13 | 4 | - | 2 | 7 |
| Syracuse, N.Y. | 84 | 56 | 15 | 7 | 3 | 3 | 1 | New Orleans, La. | 140 | 68 | 40 | 16 | 6 | 10 | . |
| Trenton, N.J. | 22 | 17 | 5 | - | - | - | . | San Antonio, Tex. | 194 | 107 | 48 | 24 | 13 | 2 | 11 |
| Utica, N.Y. | 11 | 8 | 3 | - | - | - | - | Shreveport, La. | 38 | 24 | 8 | 1 | 1 | 4 | 1 |
| Yonkers, N.Y. | 29 | 24 | 4 | 1 | - | - | 1 | Tulsa, Okla. | 79 | 42 | 20 | 10 | 3 | 4 | 6 |
| E.N. CENTRAL 2 | 2.216 | 1.422 | 492 | 152 | 72 | 77 | 82 | MOUNTAIN | 598 | 359 | 136 | 48 | 22 | 33 | 22 |
| Akron, Ohio | 69 | 47 | 14 | 3 | 3 | 2 | - | Albuquerque, N.Mex | - 82 | 54 | 16 | 8 | 4 | 3 | 3 |
| Canton, OhioChicago, lli | 24 528 | 15 303 | 8 135 | 47 | 17 | $25^{-}$ | - | Colo. Springs, Colo. | 36 | 27 | 7 |  | 1 | 1 | 5 |
|  | 528 | 303 | 135 | 47 | 17 | 26 | 23 | Denver, Colo. | 106 | 61 | 25 | 8 | 4 | 8 | 1 |
| Cincinnati, Ohio | 150 | 103 | 33 | 7 | 1 | 6 | 19 | Las Vegas, Nev. | 59 | 29 | 13 | 9 | 3 | 5 | 1 |
| Cleveland, OhioColumbus, Ohio | 174 128 | 111 | 35 25 | 15 | 4 | 9 | 3 | Ogden, Utah | 20 | 13 | 3 | 2 | 1 | 1 | 2 |
|  | 128 | 90 | 25 | 5 | 4 | 4 | 4 | Phoenix, Ariz. | 146 | 87 | 32 | 14 | 4 | 9 | 1 |
| Dayton, Ohio | 113 | 68 | 27 | 10 | 3 | 5 | 2 | Pueblo, Colo. | 28 | 17 | 8 | 1 | - | 2 | 5 |
| Detroit, Mich. Evansville, Ind. | 241 42 | 149 32 | 48 | 28 | 8 | 8 | 5 | Salt Lake City, Utah | 58 | 31 | 13 | 4 | 3 | 7 | 1 |
| Evansville, Ind Fort Wayne, Ind. | 42 | 32 | 7 | 1 | 1 | 1 | - | Tucson, Ariz. | 63 | 40 | 19 | 2 | 2 | - | 3 |
| Gary, Ind. | 44 16 | 32 7 | 9 1 | 3 | 3 | - | 1 |  |  |  |  |  |  |  |  |
|  | ค. 49 | 33 | 13 | 4 | 3 | 2 | 1 | PACIFIC | 1.852 | 1.177 | 400 | 146 | 72 | 50 | 97 |
| Grand Rapids, Mich Indianapolis, Ind. | 139 | 84 | 37 | 6 | 9 | 3 | 3 | Berkeley, Calif. Fresno, Calif. | 70 | 6 40 | 5 | 5 | 5 | 1 | - |
| Madison, Wis.Milwaukee, Wis. | 31 | 23 | 4 | 2 | 1 | 1 | 2 | Glendale, Calif. | 32 | 24 | 5 | 2 | 1 | 3 | 8 2 |
|  | 134 | 96 | 28 | 4 | 2 | 4 | 6 | Honolulu, Hawaii | 65 | 39 | 16 | 3 | 5 | 2 | 7 |
| Milwaukee, Wis. Peoria, III. | 47 | 30 | 10 | 4 | 3 | - | 3 | Long Beach, Calif. | 73 | 46 | 20 | 1 | 4 | 2 | 3 |
| Rockford, III. | 52 | 33 37 | 14 | 2 | 2 | 1 | 1 | Los Angeles, Calif. | 595 | 372 | 126 | 58 | 26 | 7 | 14 |
| South Bend, IndToledo, Ohio | 49 | 37 | 5 | 3 | 1 | 3 | 1 | Oakland, Calif. | 79 | 54 | 16 | 5 | 2 | 2 | 1 |
|  | 124 | 82 | 28 | 5 | 7 | 2 | 5 | Pasadena, Calif. | 38 | 26 | 6 | 2 | 3 | 1 | 5 |
| Youngstown, Ohio | 62 | 47 | 11 | 3 | 1 | - | - | Portland, Oreg. | 104 | 77 | 19 | 3 | 1 | 4 | 5 |
|  |  |  |  |  |  |  |  | Sacramento, Calif. | 107 | 67 | 23 | 9 | 3 | 5 | 5 |
| W.N. CENTRAL | 683 | 446 | 149 | 30 | 27 | 31 | 30 | San Diego, Calif. | 154 | 92 | 36 | 14 | 5 | 7 | 13 |
| Des Moines, IowaDuluth, Minn. | 60 | 42 | 10 | 4 | 3 | 1 | 4 | San Francisco, Calif. | 151 | 94 | 26 | 21 | 3 | 7 | 4 |
|  | 26 | 20 | 5 | - | - | 1 | 2 | San Jose, Calif. | 150 | 92 | 35 | 14 | 7 | 2 | 15 |
| Kansas City, Kans. | 25 120 | 11 72 | 9 28 | 2 | 1 | 2 | 7 | Seattle, Wash. | 133 | 87 | 33 | 4 | 4 | 5 | 4 |
| Kansas City, Mo. | 120 | 72 | 28 | 7 | 5 | 8 | 7 | Spokane, Wash. | 44 | 28 | 8 | 3 | 2 | 2 | 3 |
| Lincoln, Nebr. | 28 | 22 | 5 | - | - | 1 | - | Tacoma, Wash. | 40 | 33 | 6 | - | 1 | - | 8 |
| Minneapolis, Minn | 61 88 | 41 59 | 11 | 6 | 1 | 2 | 2 |  |  |  |  |  |  |  |  |
| Omaha, Nebr. | 88 138 | 59 89 | 20 | 2 | 5 9 | 12 | 7 3 | TOTAL | 11.79 | 7.407 | 2.649 | 889 | 416 | 422 | 495 |
| St Paul, Minn. | 70 | 51 | 16 | 1 | 1 | 1 | 2 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 67 | 39 | 19 | 5 | 2 | 2 | 3 |  |  |  |  |  |  |  |  |

[^1]Hemorrhagic Fever - Continued
CCHF ranging in titer from 1:16 to 1:4096; five of 20 cows tested from the farmer's original herd had demonstrable antibodies ranging in titer from 1:32 to 1:512. No Hyalomma ticks (common carriers of CCHF virus) were seen on cattle in May, but partially engorged Rhipicephalus evertsi and Boophilus decoloratus were removed from the cattle and are being tested for the presence of virus.

Cases 6 and 7: A 46-year-old man became ill in November 1983 with fever, severe headache, rash, and epistaxis. IFA testing of his serum confirmed the diagnosis of CCHF. The patient lived in Germiston, near Johannesburg, but kept cattle at a farm near Bronkhorstspruit, northeast of Pretoria. Shortly before onset of illness, he had been involved in dehorning and castrating cattle. He did not recall being bitten by ticks.

The last patient, a 32-year-old farmer from Danielskuil, west of Kimberley in the Cape province, became ill on February 2, 1984, with a severe influenza-like illness and rash. Sera obtained on March 14 and March 23 demonstrated respective IFA titers to CCHF of 1:1024 and 1:4096. The patient had slaughtered sheep shortly before his illness began.
Reported by R Swanepoel, AJ Shepherd, MJ Erasmus, National Institute for Virology, Dept of Health and Welfare, Transvaal, Dr MPJ van Rensburg, R Wessels, Regional Health Svcs, Orange Free State, Dr S Hattingh, Professor BD Middlecote, Bloemfontein; Dr Schutte, Dr van der Lingen, Dr van Rensburg, Dr Venter, Frankfort, Dr D van Coller, Germiston; Dr JD van Rensbury, Kimberley; Dr B Miller, Rietfontein Hospital, Johannesburg, Dr KD McDonald, Dr SP Taylor, Dr HGV Kustner, National Epidemiological Svc, Pretoria, Republic of South Africa; Special Pathogens Br, Div of Viral Diseases, Center for Infectious Diseases, CDC.
Editorial Note: The first indigenous case of CCHF in South Africa was reported in 1981. CCHF antibodies have since been found to be common in cattle but not in man, in the interior of the country. In a serosurvey, only 17 of 1,108 sera from people who had spent their entire lives on farms in the interior were positive (1).

CCHF is a distinct clinical entity caused by a tick-borne member of the Bunyaviridae family. The disease, which occurs in eastern Europe, central Asia, the Middle East, and Africa, has a relatively short incubation period (3-6 days) and an abrupt onset characterized by fever, chills, headache, myalgia, abdominal pain, nausea, liquid stools, and anorexia. Conjunctivitis, enanthema of the oral mucosa, leukopenia, and severe thrombocytopenia may also be present. Hemorrhagic manifestations may occur by the fourth day, followed by hypotension and shock. Mortality ranges from about $10 \%$ to about $50 \%$. Diagnosis is confirmed by serology or by isolation of virus from blood or tissues obtained at autopsy (2). CCHF is classically transmitted by the bite of an ixodid tick, most often of the Hyalomma genus. The virus seems to be maintained in nature by trans-ovarial and trans-stadial (from larva to nymph to adult) passage among ticks and by transmission from ticks to asymptomatic wild and domestic mammals, such as cattle, sheep, goats, camels, hares, and hedgehogs (2-4). Agricultural workers are at highest risk for contracting CCHF. Contacts of patients have also contracted the disease, either in homes or in hospitals via blood or bloody discharges.

CCHF virus, the presence of which was unrecognized in South Africa before 1981, now appears to be widespread in animal reservoirs throughout much of the country $\mathbf{( 1 , 5 )}$. It is still uncommon among humans, and immunity appears to be rare. Thus, there is a large susceptible population, and the risk of infection exists for livestock workers, veterinarians, and others who live, work, or play in rural environments.
(Continued on page 548)

Final 1983 Reports of Notifiable Diseases
The following table summarizes final data reported for 1983, which will be published in more detail in the MMWR Annual Summary 1983.

NOTIFIABLE DISEASES—Reported cases, by geographic division and area,
United States, 1983

| Area | Tot. Resident Population (in thousands) | Amebiasis | Aseptic meningitis | Botulism |  |  |  | Brucellosis | Chancroid |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Food-borne | Infant | Wound | Unsp. |  |  |
| United States | 233,981 ${ }^{1}$ | 6,658 | 12,696 | 50 | 79 | 3 | 1 | 200 | $847^{2}$ |
| New England | 12,489 | 62 | 472 | - | 2 | - | - | 2 | 2 |
| Maine | 1,146 | 1 | 23 | - | - | - | - | - | - |
| N.H. | 959 | 2 | 29 | - | - | - | - | - | 2 |
| Vt . | 525 | 6 | 29 | - | - | - | - | - |  |
| Mass. | 5,767 | 10 | 176 | - | 1 | - | - | 1 | - |
| R.I. | 955 | - | 41 | - | - | - | - | - |  |
| Conn. | 3,138 | 43 | 174 | - | 1 | - | - | 1 | - |
| Mid. Atlantic | 37.0293 | 2,352 | 1.556 | 1 | 15 | 2 | - | 4 | 406 |
| N.Y. (excl. NYC) | $17.667^{3}$ | + 49 | 482 | - | - | 2 | - | - | - |
| N.Y.C. | NA | 2,145 | 219 | - | 1 | 2 | - | 1 | 404 |
| N.J. | 7.468 | 131 | 456 | - | - | - | - | - | 2 |
| Pa . | 11.895 | 27 | 399 | -1 | 14 | - | - | 3 | 2 |
| E.N. Central | 41.531 | 191 | 3,052 | 31 | 3 | - | 1 | 8 | 36 |
| Ohio | 10,746 | 36 | 676 | - | 1 | - | - | 2 | - |
| Ind. | 5.479 | 16 | 502 | - | - | - | - | - | 4 |
| III. | 11.486 | 99 | 567 | 29 | 2 | - | 1 | 2 | 14 |
| Mich. | 9,069 | 17 | 1,084 | 2 | - | - | - | 3 | 16 |
| Wis. | 4,751 | 23 | 223 | - | - | - | - | 1 | 2 |
| W.N. Central | 17,422 | 163 | 689 | - | - | - | - | 20 | - |
| Minn. | 4,144 | 43 | 116 | - | - | - | - | 3 | - |
| lowa | 2,905 | 39 | 142 | - | - | - | - | 6 | - |
| Mo. | 4.970 | 45 | 277 | - | _ | - | - | 4 | - |
| N. Dak. | 680 | 1 | 3 | - | - | - | - |  |  |
| S. Dak. | 700 | 1 | 22 | - | - | - | - | 4 | - |
| Nebr. | 1.597 | 4 | 22 | - | - | - | - | 1 | - |
| Kans. | 2,425 | 30 | 107 | - | - | - | - | 2 | - |
| S. Atlantic | 38,805 | 305 | 2,030 | 1 | 3 | 1 | - | 36 | 285 |
| Del. | 606 | NN | 21 | - | 1 | - | - | - | 2 |
| Md. | 4,304 | 10 | 273 | 1 | - | 1 | - | 1 | 2 |
| D.C. | 623 | 1 | 22 | - | - | - | - | 1 | - |
| Va . | 5.550 | 91 | 338 | - | 1 | - | .- | 24 | 1 |
| W. Va. | 1.965 | 3 | 42 | - | 1 | - | - | 24 | - |
| N.C. | 6,082 | 8 | 571 | - | 1 | - | - | 1 | 35 |
| S.C. | 3,264 | NN | 82 | - | - | - | - | 1 | 35 |
| Ga . | 5,732 | 132 | 93 | - | - | - | - | 4 | 146 |
| Fla. | 10,680 | 60 | 588 | - | - | - | - | 6 | 101 |
| E.S. Central | 14,946 | 48 | 881 | 1 | 6 | - | - | 14 | 1 |
| $K y$. | 3.714 | 43 | 228 | 1 | 3 | - | - | 14 | 1 |
| Tenn. | 4,685 | NN | 153 | - | 3 | - | - | 2 | - |
| Ala. | 3.959 | 5 | 445 | - | 3 | - | - | 5 | $\overline{1}$ |
| Miss. | 2.587 | 5 | 55 | - | - | - | - | 5 | - |
| W.S. Central | 25,788 | 444 | 1.752 | 1 | 2 | - | - | 96 | 3 |
| Ark. | 2,328 | 11 | 33 |  | 2 | - | - | 5 | 3 |
| La. | 4,438 | 8 | 178 | - | - | - | - | 1 | 1 |
| Okla. | 3,298 | 13 | 366 | - | - | - | - | 6 | 1 |
| Tex. | 15,724 | 412 | 1.175 | 1 | 2 | - | - | 84 | 2 |
| Mountain | 12,331 | 102 | 489 | 4 | 4 | - | - | 5 | 2 |
| Mont. | 817 | - | 8 | - | 1 | - | - | - | 1 |
| Idaho | 989 | 5 | 14 | - | , | - | - | 3 | 1 |
| Wyo. | 514 | 3 | 17 | - | - | - | - | 3 | - |
| Colo. | 3.139 | 56 | 278 | 2 | - | - | - | 1 | - |
| N. Mex. | 1.399 | 2 | 17 | - | 1 | - | - | 1 | - |
| Ariz. | 2.963 | 31 | 70 | 1 | - | - | - | - | - |
| Utah | 1,619 | 5 | 61 | 1 | 2 | - | - | - | - |
| Nev . | 891 | - | 24 | - | - | - | - | - | - |
| Pacific | 33,639 | 2,991 | 1,775 | 11 | 44 | - | - | 15 | 112 |
| Wash. | 4,300 | 38 | 141 | 2 | 6 | - | - | 3 | 112 |
| Oreg. | 2,662 | 93 | NN | 2 | 1 | - | - | - | - |
| Calif. | 25,174 | 2,840 | 1.355 | 4 | 33 | - | - | 12 | 112 |
| Alaska | 479 | 2 | 26 | 3 | - | - | - | 12 | 112 |
| Hawaii | 1,023 | 18 | 253 |  | 4 | - | - | - | - |
| Guam | NA | 1 | 11 | - | - | - | - | - | - |
| P.R. | NA | 6 | 123 | - | - | - | - | - | 18 |
| v.I. | NA | - | - | - | - | - | - | - | - |
| Pac. Trust Terr. | NA | 634 | - | NN | NN | NN | NN | NN | - |
| C.N.M.I. | NA | 3 | - | NN | NN | NN | NN | NN | - |

[^2]NOTIFIABLE DISEASES-Reported cases, by geographic division and area,
United States, 1983 (continued)

| Area | Chickenpox | Cholera | Diphtheria | Encephalitis |  |  | Gonorrhea | Granc ingui |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Primary | Indeterminate | Post childhood inf. |  |  |
| United States | 177,462 | 1 | 5 | 360 | 1.401 | 34 | 900.435 ${ }^{1}$ |  |
| New England | 24,703 | - | - | 22 | 37 | 4 | 23.473 |  |
| Maine | 5,935 | - | - | - | - | - | 1,119 |  |
| N.H. | 869 | - | - | 3 | 2 | - | 728 |  |
| Vt . | NN | - | - | 1 | - | - | 443 |  |
| Mass. | 7.459 | - | - | 7 | 19 | 2 | 9,937 |  |
| R.I. | 3,240 | - | - | - | 3 | - | 1.357 |  |
| Conn. | 7.200 | - | - | 11 | 13 | 2 | 9,889 |  |
| Mid. Atlantic | 9.845 | 1 | 2 | 28 | 110 | 9 | 116,636 |  |
| N.Y. (excl. N.Y.C.) | 5,211 | - | 1 | 11 | 26 | 2 | 19,185 |  |
| N.Y.C. | 4.383 | - | - | - | - | - | 46,407 |  |
| N.J. | NN | 1 | - | 7 | 12 | 3 | 21.794 |  |
| Pa. | 251 | - | 1 | 10 | 72 | 4 | 29.250 |  |
| E.N. Central | 93.592 | - | - | 112 | 612 | 14 | 133,275 |  |
| Ohio | 8,628 | - | - | 45 | 150 | 6 | 33,646 |  |
| Ind. | 8.889 | - | - | 19 | 191 | 2 | 15,454 |  |
| III. | 20.258 | - | - | 21 | 97 | 4 | 38,700 |  |
| Mich. | 39.449 | - | - | - | 121 | - | 34,065 |  |
| Wis. | 16,368 | - | - | 27 | 53 | 2 | 11,410 |  |
| W.N. Central | 15.210 | - | - | 37 | 143 | - | 42.419 |  |
| Minn. | 44 | - | - | 19 | 63 | - | 5,885 |  |
| lowa | 6.186 | - | - | 7 | 44 | - | 4,574 |  |
| Mo. | 408 | - | - | - | 29 | - | 20,718 |  |
| N. Dak. | 902 | - | - | 4 | - | - | 438 |  |
| S. Dak. | 645 | - | - | 1 | - | - | 1.036 |  |
| Nebr. | 169 | - | - | 2 | 3 | - | 2,765 |  |
| Kans. | 6.856 | - | - | 4 | 4 | - | 7,003 |  |
| S. Atlantic | 8,980 | - | - | 55 | 178 | 5 | 231.684 |  |
| Del. | 281 | - | - | - | 1 | - | 4,272 |  |
| Md. | 1.367 | - | - | 9 | 14 | 1 | 30,039 |  |
| D. . | 50 | - | - | - | - | - | 16,308 |  |
| Va . | 1.277 | - | - | 10 | 44 | 1 | 21.122 |  |
| W. Va. | 4.822 | - | - | 2 | 48 | - | 2,434 |  |
| N.C. | NN | - | - | 4 | 34 | 1 | 35,910 |  |
| S.C. | NN | - | - | - | 3 | - | 21,485 |  |
| Ga. | 1.183 | - | - | 8 | 1 | - | 46,734 |  |
| Fla. | NN | - | - | 22 | 33 | 2 | 53,380 |  |
| E.S. Central | 3,318 | - | - | 10 | 37 | - | 74.733 |  |
| Ky. | 2.912 | - | - | - | 17 | - | 8,852 |  |
| Tenn. | NN | - | - | - | - | - | 30,896 |  |
| Ala. | NN | - | - | 6 | 14 | - | 22,626 |  |
| Miss. | 406 | - | - | 4 | 6 | - | 12,359 |  |
| W.S. Central | 15.179 | - | 2 | 56 | 120 | 1 | 124,343 |  |
| Ark. | 148 | - | 1 | 3 | 12 | - | 9.752 |  |
| La. | NN | - | - | 6 | 24 | - | 23,483 |  |
| Okla. | NN | - | 1 | 4 | 30 | 1 | 14,284 |  |
| Tex. | 15,031 | - | - | 43 | 54 | - | 76,824 |  |
| Mountain | 3.599 | - | - | 19 | 60 | - | 29.013 |  |
| Mont. | 87 | - | - | 2 | - | - | 1.216 |  |
| Idaho | 96 | - | - | 1 | - | - | 1,285 |  |
| Wyo. | 125 | - | - | 1 | - | - | 739 |  |
| Colo. | NN | - | - | 6 | 40 | - | 7.972 |  |
| N. Mex. | NN | - | - | 2 | - | - | 3,524 |  |
| Ariz. | 2,584 | - | - | 5 | 10 | - | 8.527 |  |
| Utah | 449 | - | - | 2 | 9 | - | 1.363 |  |
| Nev. | 258 | - | - | - | 1 | - | 4.387 |  |
|  | 3,036 | - | 1 | 21 | 104 | 1 | 124,859 |  |
| Wash. | NN | - | 1 | 3 | 17 | 1 | 9,895 |  |
| Oreg. | NN | - | - | - | 4 | - | 6,670 |  |
| Calif. | 1.273 | - | 1 | 18 | 74 | 1 | 102.899 |  |
| Alaska | 321 | - | - | - | - | - | 3.167 |  |
| Hawaii | 1,442 | - | - | - | 9 | - | 2,228 |  |
| Guam | 102 | 1 | - | - | - | - | 137 |  |
| P.R. | 1,238 | - | - | - | 3 | - | 3.138 |  |
| V.I. | 80 | - | - | - | - | - | - |  |
| Pac. Trust Terr. | 228 | 314 | - | - | - | - | - |  |
| C.N.M.I. | 39 | - | - | - | - | - | - |  |

[^3]NOTIFIABLE DISEASES-Reported cases, by geographic division and area, United States, 1983 (continued)

| Area | Hepatitis A | Hepatitis B | Hepatitis non-A non-B | Hepatitis unsp. | Legionellosis | Leprosy | Leptospirosis | Lymphogranuloma venereum | Malaria |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| United States | 21.532 | 24,318 | 3,470 | 7.149 | 852 | 2591 | 61 | $335{ }^{2}$ | $813^{3}$ |
| New England | 421 | 1,372 | 118 | 205 | 104 | 6 | 1 | - | 36 |
| Maine | 31 | 51 | 14 | 5 | 1 | - | - | _ | - |
| N.H. | 31 | 42 | 6 | 4 | - | 1 | - | - | 2 |
| Vt . | 29 | 43 | 14 | 3 | 3 | - | - | - | 1 |
| Mass. | 199 | 696 | 34 | 155 | 22 | 1 | - | - | 17 |
| R.I. | 40 | 102 | 2 |  | 27 | 1 | - | - | 3 |
| Conn. | 91 | 438 | 48 | 38 | 51 | 3 | 1 | - | 13 |
| Mid. Atlantic | 2,248 | 4,515 | 319 | 713 | 167 | 35 | 3 | 43 | 131 |
| N.Y. (excl. NYC) | 3444 | ${ }_{8}^{827} 4$ | 98 | 1284 | NN | - | - | - | 33 |
| N.Y.C. | 5074 | $1.327^{4}$ | - | $158{ }^{4}$ | 58 | 31 | 1 | 41 | 45 |
| N.J. | 546 | 1,174 | 101 | 378 | 34 | 2 | 1 | 2 | 29 |
| Pa . | 851 | 1.187 | 120 | 49 | 75 | 2 | 1 | 2 | 24 |
| E.N. Central | 2,258 | 3,099 | 364 | 562 | 296 | 8 | 3 | 5 | 70 |
| Ohio | 814 | 804 | 74 | 152 | 135 | 1 | 1 | - | 10 |
| Ind. | 314 | 377 | 51 | 157 | 24 | 1 | - | 2 | 10 |
| III. | 373 | 724 | 84 | 80 | 45 | 3 | 1 | - | 30 |
| Mich. | 623 | 1.009 | 111 | 156 | 55 | 3 | 1 | 3 | 15 |
| Wis. | 134 | 185 | 44 | 17 | 37 | 3 | - | 3 | 5 |
| W.N. Central | 707 | 760 | 143 | 144 | 61 | 6 | 6 | - | 30 |
| Minn. | 175 | 140 | 48 | 6 | 3 | 4 | 1 | - | 11 |
| lowa | 31 | 90 | 40 | 13 | 7 | - | - | - | 3 |
| Mo. | 123 | 365 | 33 | 87 | 39 | 1 | 5 | - | 4 |
| N. Dak. | 26 187 | 17 | 4 | 7 | 5 | - | - | - | 2 |
| S. Dak. | 187 69 | 17 | 3 | 1 | 1 | - | - | - | 1 |
| Nebr. Kans. | 69 96 | 57 74 | 5 | 18 | 2 | $\overline{1}$ | - | - | 3 |
|  |  |  | 10 | 12 | 4 | 1 | - | - | 6 |
| S. Atlantic | 1.940 | 4,840 | 524 | 722 | 77 | 13 | 9 | 246 | 131 |
| Del. | . 29 | 99 | 12 | 14 | 5 | - | 9 | 1 | 1 |
| Md. | 120 | 827 | 98 | 95 | 14 | 1 | - | 1 | 26 |
| D.C. | 16 | 137 | 5 | 16 | - | - | - | - | 20 |
| Va. | 126 | 528 | 84 | 92 | 24 | 1 | 3 | 4 | 31 |
| W. Va. | 69 | 94 | 15 | 13 | 2 | 1 | 3 | 4 | 3 |
| N.C. | 133 | 426 | NN | 114 | NN | 2 | - | 4 | 4 |
| S.C. | 235 | 508 | 16 | 49 | 6 | - | 1 | 4 | 5 |
| Ga . | 251 | 823 | 42 | 34 | 3 | 1 | - | 218 | 10 |
| Fla. | 961 | 1.398 | 252 | 295 | 23 | 8 | 5 | 19 | 31 |
| E.S. Central | 1.512 | 1.512 | 184 | 147 | 14 | - | 3 | - | 16 |
| Ky. | 959 | 229 | 29 | 43 | 8 | - | 1 | - | 2 |
| Tenn. | 228 | 697 | 79 | 55 | NN | - | 1 | - | 2 |
| Ala. | 183 | 424 | 76 | 49 | 5 | - | 2 | - | 7 |
| Miss. | 142 | 162 | NN | NN | 1 | - | 2 | - | 7 |
| W.S. Central | 4,550 | 2,067 | 117 | 2,859 | 23 | 36 | 15 | 7 | 74 |
| Ark. | 91 | 127 | 27 | - 143 | 5 | 36 | 1 | 7 | 1 |
| La. | 600 | 355 | 37 | 118 | 6 | 1 | 6 | 4 | 11 |
| Okla. | 829 | 351 | 53 | 211 | 12 | - | 4 | - | 8 |
| Tex. | 3.030 | 1.234 | NN | 2,387 | NN | 35 | 4 | 3 | 54 |
| Mountain | 2,035 | 1,051 | 256 | 402 | 36 | 20 | 3 | 2 | 30 |
| Mont. | 33 | 21 | 2 | 16 | 9 | 2 | 3 | 2 | 30 |
| Idaho | 110 | 42 | 11 | 7 | 1 | - | 1 | - | 2 |
| Wyo. | 33 | 22 | 3 | 11 | 1 | 1 | 1 | - | 1 |
| Colo. | 394 | 227 | 56 | 50 | 9 | 3 | 1 | - | 11 |
| N. Mex. | 248 | 94 | 35 | 28 | - | - | - | - | 5 |
| Ariz. | 919 | 365 | 101 | 198 | 11 | 14 | - | 2 | 8 |
| Utah | 145 | 83 | 28 | 48 | 5 | 2 | - | 2 | 3 |
| Nev . | 153 | 197 | 20 | 44 | - | - | - | - | 3 |
| Pacific | 5.861 | 5,102 | 1,445 | 1,395 | 74 | 135 | 18 | 32 | 295 |
| Wash. | 269 | 307 | 151 | 49 | 14 | 16 | - | 1 | 15 |
| Oreg. | 783 | 259 | 118 | 31 | 3 | 1 | 1 | 1 | 11 |
| Calif. | 4.702 | 4.402 | 1,154 | 1.303 | 56 | 77 | 1 | 30 | 267 |
| Alaska | 52 | 51 | 7 | 2 | NN | - | NN | - | - |
| Hawaii | 55 | 73 | 15 | 10 | 1 | 41 | 16 | - | 2 |
| Guam | 6 |  | 1 |  | - | 4 | - | - | 3 |
| P.R. | 329 | 488 | 1 | 462 | - |  | - | 3 | 3 |
| V.I. | 4 | 20 | - | 2 | - | - | - | - | - |
| Pac. Trust. Terr. | 34 | - | - | 86 | NN | 14 | - | - | - |
| C.N.M.I. | - | - | - | - | 二 | - | 二 | - | - |

[^4]NOTIFIABLE DISEASES-Reported cases, by geographic division and area, United States, 1983 (continued)

| Area | Measles |  | Meningococcal infections | Mumps | Pertussis | Plague | Poliom yelitis |  | Psitta |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Indigenous | Imported |  |  |  |  | Total | Paralytic |  |
| United States | 1.163 | $334{ }^{1}$ | 2,736 | 3,355 | 2,463 | 40 | 15 | 15 | 1 |
| New England | 5 | 16 | 163 | 133 | 75 | - | - | - |  |
| Maine | - | - | 10 | 30 | 5 | - | - | - |  |
| N.H. | - | 3 | 8 | 29 | 10 | - | - | - |  |
| Vt . | - | - | 11 | 15 | 8 | - | - | - |  |
| Mass. | 4 | 5 | 57 | 20 | 40 | - | - | - |  |
| R.I. | - | - | 12 | 16 | 5 | - | - | - |  |
| Conn. | 1 | 8 | 65 | 23 | 7 | - | - | - |  |
| Mid. Atlantic | 75 | 45 | 461 | 368 | 448 | - | 2 | 2 |  |
| N.Y. (excl. NYC) | 4 | 14 | 145 | 110 | 119 | - | - | - |  |
| N.Y.C. | 45 | 27 | 89 | 37 | 61 | - | 1 | 1 |  |
| N.J. | 26 | 1 | 77 | 129 | 17 | - | - | - |  |
| Pa. | - | 3 | 150 | 92 | 251 | - | 1 | 1 |  |
| E.N. Central | 664 | 92 | 498 | 1.491 | 515 | - | 5 | 5 |  |
| Ohio | 72 | 16 | 150 | 591 | 158 | - | 1 | 1 |  |
| Ind. | 402 | 4 | 59 | 56 | 60 | - | 3 | 3 |  |
| III. | 184 | 32 | 133 | 215 | 179 | - | 1 | 1 |  |
| Mich. | 6 | 39 | 91 | 526 | 43 | - | - | - |  |
| Wis. | - | 1 | 65 | 103 | 75 | - | - | - |  |
| W.N. Central | 1 | 7 | 151 | 183 | 227 | - | 2 | 2 |  |
| Minn. | 1 | - | 35 | 30 | 49 | - | - | - |  |
| lowa | - | - | 20 | 49 | 9 | - | - | - |  |
| Mo | - | 1 | 55 | 21 | 23 | - | 2 | 2 |  |
| N. Dak. | - | - | 4 | 3 | 3 | - |  | - |  |
| S. Dak. | - | - | 4 | - | 8 | - | - | - |  |
| Nebr. | - | - | 5 | 3 | 5 | - | - | - |  |
| *Kans. | - | 6 | 28 | 77 | 130 | - | - | - |  |
| S. Atlantic | 174 | 32 | 565 | 246 | 283 | - | - | - |  |
| Del. | - | - | 13 | 10 | 5 | - | - | - |  |
| Md. | 6 | 5 | 53 | 45 | 39 | - | - | - |  |
| D.C. | - | - | 6 | 3 | 5 | - | - | - |  |
| Va | 10 | 13 | 81 | 37 | 50 | - | - | - |  |
| W. Va. | - | - | 3 | 60 | 9 | - | - | - |  |
| N.C. | - | 1 | 108 | 14 | 34 | - | - | - |  |
| S.C. | - | 4 | 54 | 14 | 14 | - | - | - |  |
| Ga . | 8 | - | 90 | 63 | 70 | - | - | - |  |
| Fla. | 150 | 9 | 157 | NN | 57 | - | - | - |  |
| E.S. Central | 3 | 24 | 161 | 60 | 32 | - | 1 | 1 |  |
| $K y .$ | - | 1 | 31 | 21 | 14 | - | 1 | 1 |  |
| Tenn. | - | - | 58 | 30 | 8 | - | - | , |  |
| Ala. | 1 | 4 | 50 | 2 | 5 | - | - | - |  |
| Miss. | 2 | 19 | 22 | 7 | 5 | - | - | - |  |
| W.S. Central | 45 | 35 | 307 | 229 | 482 | - | 2 | 2 |  |
| Ark. | 5 | 8 | 24 | 3 | 28 | - | - | - |  |
| La | 4 | 25 | 57 | 1 | 11 | - | 1 | 1 |  |
| Okla. | 1 | - | 38 | NN | 348 | - | - | - |  |
| Texas | 35 | 2 | 188 | 225 | 95 | - | 1 | 1 |  |
| Mountain | 22 | 19 | 96 | 194 | 239 | 38 | - | - |  |
| Mont. | - | 4 | 5 | 9 | 2 | - | - | - |  |
| Idaho | - | 10 | 9 | 9 | 16 | - | - | - |  |
| Wyo. | - | 1 | 2 | 3 | 6 | - | - | - |  |
| Colo. | - | 3 | 36 | 54 | 138 | 1 | - | - |  |
| N. Mex. | - | - | 8 | NN | 13 | 26 | - | - |  |
| Ariz. | - | 1 | 24 | 97 | 32 | 10 | - | - |  |
| Utah | 22 | - | 12 | 17 | 31 | 1 | - | - |  |
| Nev. |  | - |  | 5 | 1 | - | - | - |  |
| Pacific | 174 | 64 | 334 | 451 | 162 | 2 | 3 | 3 |  |
| Wash. | 2 | 41 | 48 | 55 | 20 | - | 1 | 1 |  |
| Oreg. | 8 | 2 | 60 | NN | 10 | 1 | 1 | 1 |  |
| Calif. | 164 | 17 | 217 | 360 | 125 | 1 | 1 | 1 |  |
| Alaska | - | 2 | 4 | 16 | 4 |  | , | - |  |
| Hawaii | - | 2 | 5 | 20 | 3 | - | - | - |  |
| Guam | 1 | 2 | 3 | 2 | - | - | - | - |  |
| P.R. | 95 | - | 11 | 146 | 15 | - | - | - |  |
| V.I. | - | 5 | - | - | 15 | - | - | - |  |
| Pac. Trust Terr. | - | - | 3 | 8 | - | - | - | - |  |
| C.N.M.I. | - | - | - | 4 | - | - | - | - |  |

[^5]NN (not nc

## NOTIFIABLE DISEASES - Reported cases, by geographic division and area, United States, 1983 (continued)

| Area | Rabies |  | Rheumatic fever, acute | Rubella |  | Salmonellosis | Shigellosis | Syphilis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Animal | Human |  | Rubella | Cong. syndrome |  |  | Primary \& secondary | $\begin{gathered} \text { All } \\ \text { stages } \end{gathered}$ |
| ted States | 5,824 | 21 | 88 | 970 | 22 | 44,250 | 19.719 | 32,698 ${ }^{2}$ | 74,637 ${ }^{\mathbf{2}}$ |
| England | 47 | 1 | 19 | 21 | - | 4,053 | 558 | 655 | 1,666 |
| ne | 17 | - | 1 | - | - | 255 | 11 | 18 | 57 |
|  | 5 | - | - | 5 | - | 173 | 16 | 21 | 27 |
|  | 2 | - | - | 5 | - | 155 | 9 | 3 | 15 |
| S. | 15 | 1 | NN | 8 | - | 2,186 | 323 | 416 | 949 |
|  | 2 | - | 17 | - | - | 216 | 19 | 22 | 96 |
| n. | 6 | - | 1 | 3 | - | 1,068 | 180 | 175 | 522 |
| Itlantic | 276 | - | - | 148 | 2 | 8,322 | 2,657 | 4,288 | 11,653 |
| (excl. NYC) | $84$ | - | NN | 32 | 2 | 1,543 | . 352 | 419 | 1,163 |
| C. | - | - | NN | 87 | NN | 2,829 | 1,238 | 2,459 | 6,805 |
|  | 24 | - | NN | 3 | - | 2,046 | 561 | 815 | 2.075 |
|  | 168 | - | NN | 26 | - | 1,904 | 506 | 595 | 1,610 |
| entral | 464 | 1 | 9 | 145 | 3 | 6.247 | 2,727 | 1.783 | 5.469 |
| 0 | 60 | - | 6 | 2 | - | 1,007 | 366 | 432 | 1.067 |
|  | 30 | - | - | 30 | - | 582 | 269 | 153 | 438 |
|  | 236 | 1 | 1 | 63 | 1 | 2.324 | 1.398 | 812 | 2.953 |
| h. | 19 | 1 | 1 | 21 | 1 | 1.283 | 421 | 289 | 735 |
|  | 119 | - | 2 | 29 | 1 | 1.051 | 273 | 97 | 276 |
| Central | 858 | - | 10 | 45 | 2 | 2,308 | 715 | 453 | 1.629 |
| n. | 171 | - | NN | 9 | - | 523 | 84 | 204 | 410 |
| a | 202 | - | 2 | - | - | 340 | 66 | 20 | 78 |
|  | 97 | - | 3 | - | - | 602 | 264 | 145 | 802 |
| lak. | 92 | - | 1 | - | - | 135 | 7 | 2 | 3 |
| 'ak. | 149 | - | 1 | - | 1 | 135 | 116 | 11 | 24 |
| r. | 64 | - | NN | - | - | 113 | 86 | 15 | 41 |
| s. | 83 | - | 3 | 36 | 1 | 460 | 92 | 56 | 271 |
| antic | 2,146 | - | 13 | 102 | - | 9,254 | 2,146 | 8,810 | 19,204 |
|  | 7 | - | 1 | - | - | 141 | 16 | . 42 | + 68 |
|  | 828 | - | 1 | 3 | - | 1.407 | 462 | 517 | 1.329 |
|  | 162 | - | - | - | - | 216 | 80 | 397 | 1.145 |
|  | 625 | - | NN | 2 | - | 1.471 | 285 | 560 | 1.389 |
| Va. | 120 | - | 1 | - | - | 193 | 14 | 24 | $\begin{array}{r}412 \\ \hline\end{array}$ |
|  | 24 | - | NN | 10 | - | 1.042 | 256 | 886 | 1.734 |
|  | 35 | - | NN | 1 | NN | 915 | 92 | 608 | 1.224 |
|  | 214 | - | 2 | 16 | - | 1.537 | 241 | 1.597 | 3.494 |
|  | 131 | - | 8 | 70 | - | 2.332 | 700 | 4.179 | 8.409 |
| entral | 365 | - | 1 | 19 | 1 | 2.053 | 413 | 2,142 | 4,351 |
|  | 83 | - | 1 | 18 | - | 414 | 81 | 2, 176 | 471 |
| n. | 190 | - | NN | - | - | 521 | 191 | 588 | 1.211 |
|  | 83 | - | NN | 1 | 1 | 737 | 105 | 815 | 1.522 |
| s. | 9 | - | N | - | 1 | 381 | 36 | 563 | 1.147 |
| Central | 998 | - | 13 | 128 | 1 | 4,141 | 2,607 | 8,279 | 16,836 |
|  | 161 | - | - | - | 1 | 456 | 2,67 | 8. 185 | 6.836 413 |
|  | 34 | - | - | 10 | - | 250 | 82 | 1.642 | 3.671 |
| a. | 107 | - | NN | 1 | - | 597 | 241 | . 196 | 542 |
|  | 696 | - | 13 | 117 | - | 2.838 | 2.206 | 6.256 | 12.210 |
| tain | 279 | - | 13 | 38 | 1 | 1.861 | 1,908 | 667 | 1.598 |
| nt. | 119 | - | NN | 4 | - | 164 | 1.98 | 5 | , 10 |
| ר0 | 17 | - | NN | 8 | - | 109 | 38 | 10 | 20 |
| o. | 10 | - | 4 | 9 | - | 27 | 8 | 13 | 36 |
| o. | 36 | - | 2 | 1 | 1 | 484 | 318 | 153 | 337 |
| lex. | 15 | - | 5 | - | - | 409 | 432 | 182 | 429 |
| z. | 33 | - | - | 8 | - | 498 | 928 | 172 | 486 |
| ih | 11 | - | 2 | 7 | - | 114 | 105 | 23 | 58 |
| , | 38 | - | - | 1 | - | 56 | 60 | 109 | 222 |
| c | 391 | - | 10 | 324 | 12 | 6,011 | 5,988 | 5,621 | 12,231 |
| sh. | 10 | - | NN | 10 | 1 | 739 | . 370 | 5.621 | 12,234 |
| g. | 3 | - | NN | 14 | 1 | 411 | 199 | 144 | 274 |
| if. | 359 | - | 9 | 298 | 11 | 4.353 | 5.275 | 5.183 | 11.247 |
| ska | 19 | - | 1 | 1 | - | +177 | - 10 | 5. 15 | 11,45 |
| Naii | - | - | NN | 1 | - | 331 | 134 | 83 | 131 |
|  | - | - | 2 | - | - | 143 | 39 | - | 9 |
|  | 36 | - | 4 | 9 | - | 355 | 188 | 907 | 2,248 |
|  | - | - | - | 2 | - | 7 | 6 | - | 2,248 |
| Trust Terr. | - | - | - | - | NN | 7 | 6 | - | - |
| A.I. | - | - | - | - | NN | 33 | 28 | - | - |

NOTIFIABLE DISEASES-Reported cases, by geographic division and area,
United States, 1983 (continued)

| Area | Tetanus | Toxicshock syndrome | Trichinosis | Tuberculosis | Tularemia | Typhoid fever |  | Typhus fever |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Murine | Rocky Mt. |
|  |  |  |  |  |  | Cases | Carriers |  | Spotted |
| United States | 91 | 502 | 45 | 23,846 | 310 | $507{ }^{1}$ | 61 | 62 | 1,126 |
| New England | 1 | 17 | 8 | 731 | 4 | 25 | 5 | - | 8 |
| Maine | - | 6 | - | 39 | - | - | - | - |  |
| N.H. | 1 | 4 | - | 38 | - | - | - | - | 1 |
| Vt . | - | 1 | - | 11 | - | - | - | - | - |
| Mass. | - | 3 | 5 | 389 | 3 | 18 | 2 | - | 3 |
| R.I. | - | 2 | - | 60 | 1 | 1 | 2 | - | 3 |
| Conn. | - | 1 | 3 | 194 | - | 6 | 3 | - | 4 |
| Mid. Atlantic | 11 | 39 | 19 | 4,090 | 4 | 96 | 9 | - | 31 |
| N.Y. (excl. NYC) | 2 | NN | 2 | 658 | 1 | 11 | - | - | 7 |
| N.Y.C. | 4 | 3 | 4 | 1.651 | - | 47 | - | - | 3 |
| N.J. | 4 | 7 | 8 | 809 | - | 30 | 8 | - | 8 |
| Pa. | 1 | 29 | 5 | 972 | 3 | 8 | 1 | - | 13 |
| E.N. Central | 12 | 153 | 2 | 3,264 | 5 | 67 | 2 | 1 | 70 |
| Ohio | 3 | 37 | 2 | 519 | - | 18 | - | 1 | 27 |
| Ind. | - | 14 | - | 411 | - | 4 | - | - | 16 |
| III. | 5 | 24 | - | 1,380 | 2 | 32 | 1 | - | 17 |
| Mich. | - | 31 | - | 790 | 1 | 10 | - | - | 7 |
| Wis. | 4 | 47 | - | 164 | 2 | 3 | 1 | - | 3 |
| W.N. Central | 6 | 71 | 1 | 785 | 82 | 15 | 3 | - | 44 |
| Minn. | 3 | 18 | - | 165 | 1 | 2 | - | - | 1 |
| lowa | 1 | 17 | - | 65 | - | - | 1 | - | - |
| Mo. | 1 | 16 | 1 | 399 | 51 | 9 | NN | - | 14 |
| N. Dak. | - | 2 | - | 9 | 1 | - | - | - | 1 |
| S. Dak. | - | 3 | - | 46 | 10 | - | - | - | 5 |
| Nebr. | 1 | 7 | - | 25 | 8 | 2 | - | - | 3 |
| Kans. | - | 8 | - | 76 | 11 | 2 | 2 | - | 20 |
| S. Atlantic | 19 | 48 | 6 | 4.817 | 14 | 54 | 7 | 1 | 473 |
| Del. |  | 2 | - | 65 | - | - | - | - | 4 |
| Md. | 2 | 11 | 3 | 409 | 4 | 7 | 5 | - | 34 |
| D.C. | - | 4 |  | 202 | - | 2 | 5 | - |  |
| Va . | 2 | 9 | - | 520 | 1 | 16 | 2 | - | 60 |
| W. Va. | 2 | 7 | 1 | 133 | - | 2 | - | - | 11 |
| N.C. | 5 | NN | 2 | 780 | 8 | 4 | - | - | 208 |
| S.C. | 1 | 1 | - | 443 | - | 2 | - | - | 80 |
| Ga. | 3 | - | - | 808 | 1 | 2 | - | 1 | 68 |
| Fla. | 4 | 14 | - | 1.457 | - | 19 | NN | - | 8 |
| E.S. Central | 6 | 10 | 2 | 2,104 | 23 | 9 | 1 | - | 110 |
| Ky . | - | 4 | - | 523 | 1 | 2 | 1 | - | 24 |
| Tenn. | 1 | NN | 2 | 645 | 17 | 2 |  | - | 49 |
| Ala. | 3 | 6 | 2 | 522 | - | 2 | - | - | 24 |
| Miss. | 2 | - | - | 414 | 5 | 3 | - | - | 13 |
| W.S. Central | 16 | 45 | 6 | 3.149 | 118 | 82 | 11 | 46 | 372 |
| Ark. | 4 | 4 | - | 414 | 65 | 4 | 1 | 46 | 41 |
| La. | 4 | - | 2 | 439 | 6 | 4 | 2 | - | 2 |
| Okla. | - | 12 | - | 331 | 34 | 2 | 1 | - | 221 |
| Tex. | 8 | 29 | 4 | 1.965 | 13 | 72 | 7 | 46 | 108 |
| Mountain | 2 | 40 | - | 682 | 51 | 26 | 3 | - | 16 |
| Mont. | - | 1 | - | 47 | 8 | - | - | - | 8 |
| Idaho | - | 6 | - | 35 | 2 | 1 | - | - | 3 |
| Wyo. | - | 2 | - | 14 | 7 | - | - | - | 2 |
| Colo. | - | 8 | - | 108 | 19 | 1 | 2 | - | 2 |
| N. Mex. | - | 2 | - | 116 | 4 | 3 | 1 | - | - |
| Ariz. | 2 | 4 | - | 264 | 1 | 19 |  | - | 1 |
| Utah | - | 16 | - | 46 | 9 | 1 | - | - | 1 |
| Nev. | - | 1 | - | 52 | 1 | 1 | - | - | 1 |
| Pacific | 18 | 79 | 1 | 4,224 | 9 | 133 | 20 | 14 | 2 |
| Wash. | 2 | 11 |  | 4,224 | 2 | $\begin{array}{r}6 \\ \hline\end{array}$ | 20 | 14 | 2 |
| Oreg | 2 | 13 | - | 182 | 3 | 4 | - | - | - |
| Calif. | 13 | 55 | - | 3,469 | 3 | 119 | 20 | 1 | 2 |
| Alaska | 1 | NN | - | $\begin{array}{r}3,469 \\ \\ \hline\end{array}$ | 1 | 119 | 20 | NN | NN |
| Hawaii | - | - | 1 | 236 | - | 4 | - | 13 | NN |
| Guam | 2 | - | - | 48 | - | - | - | - | - |
| P.R. | 6 | - | - | 452 | - | 1 | - | -- | - |
| V.I. | - | - | - | 2 | - | 1 | - | - | - |
| Pac. Trust Terr. | - | - | NN | 188 | NN | 41 | - | - | - |
| C.N.M.I. | - | - | NN | 74 | NN | - | - | - | - |

Includes 304 imported cases.

## Hemorrhagic Fever - Continued

All seven patients reported here had exposure to cattle or sheep, and none could claim with certainty any tick bites. Although transmission via infected material from domestic mammals is known to occur (2), it appears to be the most common mechanism in South Africa. Reports in the literature have associated viremia with clinical illness and abortion in cattle and other domestic mammals $(2,6)$. Although viral isolation or serology was not attempted, at least two of the three cows that died on the farm in Frankfort probably had CCHF viremia. Whether their clinical illness was due to CCHF is unclear. Furthermore, 17 of 20 cows from a nonendemic area were seropositive when tested in an endemic area. Presumably, these cows seroconverted between January, when they were first brought to the endemic area, and May, when they were tested. This presumed seroconversion may have been associated with viremia and possibly shedding of virus in other fluids, such as saliva and urine.

Persons who come in close contact with these animals, which may not have clinical symptoms, are in danger of acquiring the virus. The importation of nonimmune cattle-and perhaps other domestic animals - into an endemic area may be an important means by which CCHF virus is ultimately transmitted to humans.

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[^0]:    *California, Massachusetts, New York City only. Total U.S. age data not available.

[^1]:    - Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included
    - Pneumonia and influenza
    $\dagger$ Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

[^2]:    ${ }_{2}^{1}$ Estimates from the U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 944.
    ${ }_{3}^{2}$ Civilian cases only.
    ${ }^{3}$ Population estimate includes New York City.

[^3]:    Civilian cases only.

[^4]:    ${ }_{2}$ Includes 223 imported cases.
    ${ }_{3}$ Civilian cases only.
    4 Includes 805 imported cases.
    ${ }^{4}$ Classifications based on HBsAg test results

[^5]:    For measles only, imported includes both out-of-state and international importations

